

TABLE OF CONTENTS

Executive Summary	v
List of Tables	xiii
List of Figures	xv
List of Abbreviations and Acronyms	xvii
Chapter 1: Introduction	1
Legislation (Florida Forever and Comprehensive Everglades Restoration Plan) . . .	1
Florida Forever Program.	1
The Florida Forever Act	1
Save Our Everglades (SOE) Trust Fund.	3
Comprehensive Everglades Restoration Plan (CERP)	4
Florida Forever Water Management District Work Plan	4
Florida Forever Performance Measures	9
Project Rankings, Schedule and Resources	10
Funding and Manpower Resources.	10
Implementation Schedule	10
Chapter 2: Regional Study Area	11
Future without Plan Condition - Physical Facilities and Operations - the Central and Southern Florida Flood Control Project (Project Modifications)	13
Water Quality Problems and Opportunities - Regional Overview	13
Water Quality Problems and Opportunities - Mercury	15
Land Use	16
Study Purpose	17
Study Scope	17
Other Studies	18
Permits and Authorizations	19
Interim Land Management	19
Chapter 3: Kissimmee Region	21
Physical Conditions - Kissimmee Region	21

Existing Conditions - Kissimmee Region Water Management	22
Future without Plan Condition - Water Quality - Kissimmee Region	25
Future without Plan Condition - Physical Facilities and Operations - Kissimmee River Restoration	25
Water Quality Problems and Opportunities - Kissimmee Region	26
Land Use - Kissimmee Region	27
Agriculture	28
Chapter 4: Lake Okeechobee Watershed Region	29
Physical Conditions - Lake Okeechobee Watershed Region	29
Existing Conditions - Lake Okeechobee Water Management	30
Water Quality	31
Future without Plan Condition - Water Quality - Lake Okeechobee	33
Future without Plan Condition - Physical Facilities and Operations - Manatee Protection	33
Future without Plan Condition - Physical Facilities and Operations - Lake Okeechobee Regulation Schedule	34
Future without Plan Condition - Physical Facilities and Operations - Critical Restoration Projects	34
Lake Okeechobee Water Retention / Phosphorus Removal	34
Water Quality Problems and Opportunities - Lake Okeechobee	34
Land Use - Lake Okeechobee Region	35
Agriculture	36
Urban	36
Eligible Comprehensive Everglades Restoration Plan (CERP) Projects	36
Lake Okeechobee Watershed Project	36
Chapter 5: Lower West Coast Region	39
Physical Conditions - Lower West Coast Region	39
Existing Conditions - Lower West Coast Region Water Management	40
Problems Related to Water Management	42
Future without Plan Condition - Physical Facilities and Operations - Critical Restoration Projects	42
Lake Trafford Restoration	42
Southern CREW / Imperial River Flowway	42
Western Tamiami Trail Culverts	43
Future without Plan Condition - Water Quality - Lower West Coast Region . . .	43

Water Quality Problems and Opportunities - Lower West Coast Florida Region	44
Land Use - Lower West Coast Region	45
Caloosahatchee River	45
Agriculture	45
Big Cypress National Preserve (BCNP)	46
Urban Areas	47
Fakahatchee Strand State Preserve	47
Southern Golden Gate Estates	48
Water Conservation Areas (WCAs)	48
Everglades National Park (ENP)	48
American Indian Reservations	48
Agriculture	48
Eligible Comprehensive Everglades Restoration Plan (CERP) Projects	49
C-43 Basin Storage Reservoir	49
Caloosahatchee Backpumping with Stormwater Treatment Area	49
Southern Golden Gates Estates Hydrologic Restoration	50
Big Cypress / L-28 Interceptor Modifications	50

Chapter 6: Upper East Coast Region 51

Physical Conditions - Upper East Coast Region	51
Existing Conditions - Upper East Coast Water Management	52
Surface Water Resources	54
Surface Water Inflow and Outflow	55
Groundwater Resources	56
Future without Plan Condition - Physical Facilities and Operations - Critical Restoration Projects	56
Ten Mile Creek Water Preserve Area	56
Future without Plan Condition - Water Quality - Upper East Coast	56
Water Quality Problems and Opportunities - Upper East Coast	57
Land Use	58
Upper East Coast	58
Agriculture - Upper East Coast	58
Eligible Comprehensive Everglades Restoration Plan (CERP) Projects	59
Indian River Lagoon (IRL)	59

Chapter 7: Everglades Agricultural Area 61

Physical Conditions - Everglades Agricultural Area (EAA)	61
Existing Conditions - Everglades Agricultural Area (EAA) Water Management	62

Future without Plan Condition - Water Quality - Everglades Agricultural Area (EAA)	62
Everglades Forever Act (EFA)	63
Water Quality Problems and Opportunities - Everglades Agricultural Area (EAA)	66
Land Use - Everglades Agricultural Area (EAA)	67
Agriculture	67
Rotenberger and Holey Land Wildlife Management Areas	68
Urban	68
C-139 Basin	68
Eligible Comprehensive Everglades Restoration Plan (CERP) Projects	68
Everglades Agricultural Storage Reservoir Project - Part 1	68
Loxahatchee National Wildlife Refuge Internal Canal Structures	69

Chapter 8: Everglades, Florida Bay & Keys Region 71

Physical Conditions - Everglades, Florida Bay & Keys Regions	71
Water Conservation Area 1 (WCA-1)	73
Water Conservation Area 2 (WCA-2)	73
Water Conservation Area 3 (WCA-3)	74
Existing Conditions - Water Conservation Areas (WCAs) Water Management	74
Existing Conditions - Everglades National Park and Florida Bay Water Management	77
Internal Project Structures	77
External Project Inflows	78
Project Structures Controlling Inflow	78
Existing Conditions - Florida Keys Water Management	78
Future without Plan Condition - Water Quality - Natural Areas	78
Future without Plan Condition - Water Quality - Florida Bay	79
Future without Plan Condition - Water Quality - Florida Keys	80
Future without Plan Condition - Physical Facilities and Operations - Water Conservation Areas (WCAs) and Everglades National Park Rainfall-Based Rainfall Water Delivery Plans	80
Future without Plan Condition - Physical Facilities and Operations - Emergency Interim Plan	80
Water Quality Problems and Opportunities - Natural Areas	81
Water Quality Problems and Opportunities - Florida Bay	81
Water Quality Problems and Opportunities - Florida Keys	82

Land Use - Water Conservation Areas (WCAs)	83
Land Use - Everglades National Park and Florida Bay	86
Agriculture	87
Land Use - Florida Keys	87
Existing Land Use	87
Residential Land	88
Commercial Land	88
Industrial Land	88
Public Facilities and Buildings	89
Historic Buildings and Districts	89
Military Facilities	89
Recreational Facilities	89
Conservation Land	89
Vacant Land	90
Florida Reef Tract	90
Eligible Comprehensive Everglades Restoration Plan (CERP) Projects	90
Water Conservation Area 3 Decompartmentalization and Sheetflow Enhancement Project - Part 1	90
C-111 Spreader Canal	91
Florida Keys Tidal Restoration Project	91
Flow to NW and Central WCA-3A	91
Everglades National Park Seepage Management	91

Chapter 9: Water Preserve Areas, Miami-Dade County and North Palm Beach County Regions 93

Physical Conditions - Water Preserve Areas, Miami-Dade County and North Palm Beach County Regions	93
Existing Conditions - Water Preserve Areas, Miami-Dade County and North Palm Beach County	95
Future without Plan Condition - Water Quality - Water Preserve Areas, Miami-Dade County and North Palm Beach County	97
Future without Plan Condition - Physical Facilities and Operations - Projects	97
C-51	97
Northwest Dade Lake Belt Area	98
C-111 Project	98
Modified Water Deliveries to Everglades National Park	98
East Cape and Homestead Canals	99
Interim Plan for Lower East Coast Regional Water Supply	99
Wellfield Expansion in Service Areas 1 and 2	100
Northeastern Broward Secondary Canal Recharge Network	100
Miami-Dade County Utility Aquifer Storage and Recovery (ASR)	100
Selected Elements of L-8 Project	100

Minimum Flows and Levels (MFLs)	101
Future without Plan Condition - Physical Facilities and Operations -	
Critical Restoration Projects	101
C-4 Water Control Structure	101
Western C-11 Water Quality Improvement	101
Water Quality Problems and Opportunities	102
Land Use - Water Preserve Areas, Miami-Dade County and North Palm	
Beach County	104
Agriculture	104
Urban	105
Increased Pressure on Open Land	106
Eligible Comprehensive Everglades Restoration Plan (CERP) Projects	106
North Palm Beach County Project - Part 1	106
Acme Basin B Discharge	107
Strazzulla Wetlands	107
Palm Beach County Agricultural Reserve Reservoir - Part 1	107
Site 1 Impoundment	107
Broward County WPA	108
Eastern C-4 Structure	108
WPA Conveyance	108
Broward County Secondary Canal System	108
Wastewater Reuse Technology Pilot Project	109
Biscayne Bay Coastal Wetlands	109
Bird Drive Recharge Area	109
References	111
Appendix A: WMD Florida Forever Goals and Performance Measures	A-1
Appendix B: Current Florida Forever Eligible Projects	B-1
Appendix C: Land Acquisition and Management	C-1
Appendix D: Implementation Schedule	D-1